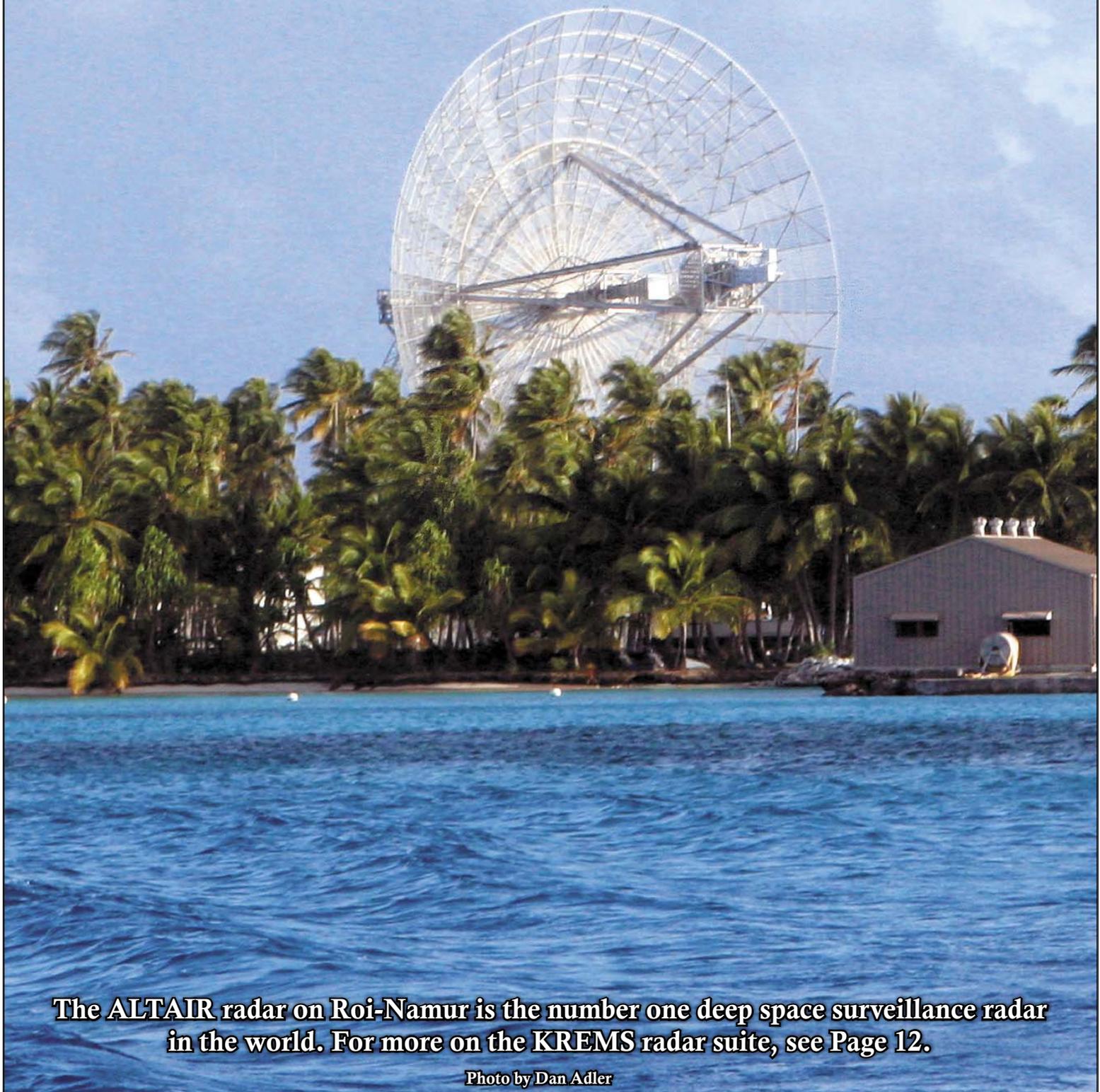


VOLUME 51 NUMBER 11

MARCH 13, 2010

# THE KWAJALEIN HOURGLASS



**The ALTAIR radar on Roi-Namur is the number one deep space surveillance radar in the world. For more on the KREMS radar suite, see Page 12.**

Photo by Dan Adler

[www.smdc.army.mil/KWAJ/Hourglass/hourglass.html](http://www.smdc.army.mil/KWAJ/Hourglass/hourglass.html)

# Crime Stoppers

Crimes/Incidents reported or observed from Feb. 22-March 9:

- Assault and Battery: one incident
- Traffic accidents: one incident
- Damage to government property: One incident
- Theft of private property: Three incidents

**Stolen Property:**

- On March 2 at 5:23 p.m., a registered

silver and yellow Sun bicycle was taken from the front of the Coral BQ. The bicycle's serial number is K051015072.

- On March 2, between 4 and 7 a.m., a mint green Electra bicycle was taken from the Marine Department, Building #607. The bicycle's serial number is HA9339.

- On March 3 at 3:05 p.m., \$40 dollars was stolen from the golf course's locker room.

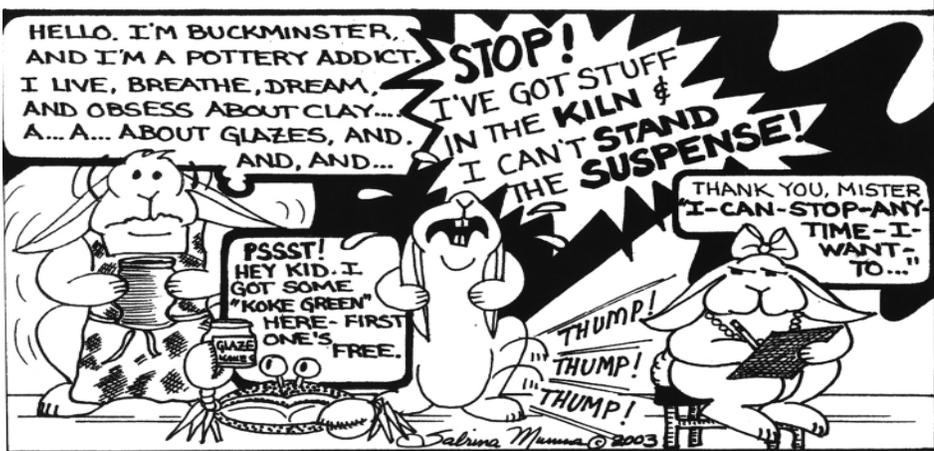
Crime Stoppers is based on the principal that someone other than the criminal has information that can solve a crime. Crime Stoppers is looking for information leading to the recovery of the property and information leading to those responsible for the theft. Please call 544445.

KPD would like to remind the community to be vigilant, to secure your property, and not to leave it unattended.

To submit a letter to the editor: Keep letters to less than 300 words, and keep comments to the issues. No personal attacks will be printed. Letters must be signed. However, names will be withheld if requested. We will edit for Associated Press style, grammar and punctuation and if you exceed the word limit, it will be edited for space. Limit one letter every 30 days. Send your letter to: *The Hourglass*, P.O. Box 23, APO AP 96555; or [hourglass@smdck.smdc.army.mil](mailto:hourglass@smdck.smdc.army.mil).

**Buckminster and Friends by Sabrina Mumma**

**CHAPTER 134: BUCKMINSTER ENTERS A 12-STEP PROGRAM.**




Do you have news you would like to share about your club, private organization or work department? Do you have an interesting story and photos of a vacation trip? How about a scuba dive with great photos you took? Have you got a good fish story? The Hourglass welcomes submissions of news articles written by members of the community. You can submit articles to the USAKA Public Affair Officer, Vanessa Peeden, at [vanessa.peeden@smdck.smdc.army.mil](mailto:vanessa.peeden@smdck.smdc.army.mil)

**THE KWAJALEIN HOURGLASS**

The Kwajalein Hourglass is named for the insignia of the U.S. Army 7th Infantry Division, which liberated the island from the forces of Imperial Japan on Feb. 4, 1944. The Kwajalein Hourglass is an authorized publication for military personnel, federal employees, contractor workers and their families assigned to U.S. Army Kwajalein Atoll. Contents of *The Hourglass* are not necessarily

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**Commanding Officer.....Col. Frederick Clarke**  
**Public Affairs Officer .....Vanessa K. Peeden**  
**Media Manager.....Dan Adler**  
**Associate Editor.....Sheila Bigelow**  
**Media Specialist.....Coleen Engvall**  
**Media Specialist.....Kaitlynn Phillips**



Left to right, David DeLeo, Country Director, Pacific Island Compact Nations; Col. David Norton, Joint Task Force Homeland Defense Chief; Lt. Cmdr. Darren Hale, Pacific Command Plans Officer and Maj. Christopher Mills, USAKA Host Nation Chief, speak with Robbie Amador, Kwajalein Range Services, and Julius Lejjena, Enniburr Police Chief, about PACOM projects and quality of life issues on Enniburr during the group's visit on March. 5.

# Pacific Command representatives from Hawaii get tours of Kwaj, outer islands

Article and photos by Dan Adler  
Media Services Manager

Representatives of U.S. Pacific Command and Joint Task Force Homeland Defense visited

Kwajalein March 4-5. During their visit, they toured Ebeye and Enniburr and were given tours of the Roi-Namur radars and World War II sites. While on Roi-Namur, they also inspected the pier that needs replacement.

The three representatives who visited are Darren Hale, Lt. Cmdr., USN, Pacific Command Plans Officer; Col. David Norton, USA, Joint Task Force Homeland Defense Chief and David DeLeo, Country Director, Pacific Island Compact Nations.

Maj. Christopher Mills, USAKA Host Nation Chief said, "We had the opportunity for an orientation tour to give them a good idea of USAKA as well as the surrounding communities. So now when they

are working with their staffs they will have a clear picture of how things are here on the ground. Each one of them has a key role in planning for events in this area."

Adm. Robert Willard is PACOM Commander and Norton works for him. Lt. Gen. Benjamin Mixon is the U.S. Army Pacific Commander and serves under the PACOM Commander.

Norton said, "Mixon is the executive agent for the land domain when a support mission is executed, whether for humanitarian reasons or for defense in the joint operation areas of Guam, Saipan, Palau, the Marshall Islands and the Federated States of Micronesia."

Norton explained that PACOM works in concert with the Department of State and the U.S. Agency

**See PACOM, Page 4**



Left to right, Col. David Norton, David DeLeo and Lt. Cmdr. Darren Hale speak with Maj. Christopher Mills and Stan Jazwinski, Kwajalein Range Services Liquid Systems Manager, about the water situation on Roi-Namur during their tour on March 5.

## PACOM from Page 3

for International Development. He said that if a major event such as a tsunami or earthquake occurred in the PACOM area of operation, those two agencies would tap into PACOM for transportation, equipment, food and other supplies.

He added, “We work with the local governments as well to make sure their disaster plans are sufficient and that they have some idea of how they are going to respond. In a lot of cases, they haven’t had to deal with such events for years. We have seven islands that we deal with and we look at going from a crawl, walk, run operation. You get together with them and look at their plans and what kind of facilities they have. We will go through a table top exercise and give them a scenario like a tsunami or a hurricane. We tell them what we would do to help with that and we ask them to tell us what they would do to respond to it. If they can’t handle a situation, they have to turn to the ambassador or the Federal Emergency Management Agency and then PACOM is asked for assistance such as generators, reverse osmosis machines, tents, food and humanitarian assistance.”

Norton said that being on the ground gives a clear picture of the logistical challenges that may arise should a natural disaster or other type of event occur in this region.

PACOM also has the responsibility of the defense of the island nations that are under Compacts.

Norton said, “The sovereign

government may be responsible for the internal parts of the island, or if you will, from the water line in. My boss [Adm. Willard] is responsible for the water’s defense. Then you have Pacific Fleet and Pacific Aviation who are responsible for the defense of the water and the air. The Army is responsible for the land mass. Even though the Compact countries are independent nations, they fall under our defense umbrella as part of Homeland Defense.”

According to Norton, humanitarian assistance and defense are two different realms within the PACOM structure.

Hale is the RMI Humanitarian Assistance Program Manager and said, “The program provides support to the RMI when they request it. So they request certain projects and using their sector grant funds, they would pay for the execution of the projects and the Department of Defense would administer the projects either through contracts or military engineers.”

He continued, “One of the reasons I came was to take a look at the PACOM projects on Enniburr. It’s been about a year since they were completed and we’re required to do annual checks to see how things are going and if there are any problems.”

It is most beneficial for Hale to ‘see the ground,’ as he is not only the RMI Program Manager, he is also responsible for humanitarian assistance and construction throughout the entire Pacific.

“Being able to see some of the projects we’ve already completed gives me a good idea of what we can do in other places as



Left to right, Col. David Norton, Lt. Cmdr. Darren Hale and David DeLeo visit TRADEX during their tour on Roi-Namur March 5.

well as do an assessment to see how a particular project is holding up and how the local Marshallese are using it,” he said.

DeLeo works on the staff at PACOM headquarters. He is the Country Desk Officer for the three Pacific Island Compact Nations, which are Palau, the RMI and the Federated States of Micronesia.

“I focus on Department of Defense responsibilities with respect to the Compact Agreement,” he said. “One of my big responsibilities is to organize and manage the Joint Committee Meetings. The meetings are between the U.S. Government and RMI officials on items relating to the Compact. My job touches a lot of different areas in the political, military and defense — almost any aspect of U.S. relations with the RMI would be of interest to me in my position.”

This was the first trip to the RMI for all three and after their tour of Ebeye, Roi-Namur and Enniburr they returned to Hawaii on the evening of March 5 with a better understanding of the RMI area of PACOM’s responsibility.



Left to right, Tony Stephens, Roi Community Activities Manager shows Maj. Christopher Mills, Lt. Cmdr. Darren Hale, David DeLeo and Col. David Norton the Roi pier that needs replacement.

# Downwind *Dash*



Molly Premo crosses the finish line at the annual Downwind Dash March 1 as Jane Erekson looks on.

## Kwajalein Running Club's race event draws 43 enthusiastic runners/sprinters

**By Bob Sholar**  
Kwajalein Running Club President

The annual Downwind Dash drew 43 competitors on March 1.

At 5 p.m., the runners toed the painted starting line on Ocean Road, adjacent to the golf clubhouse.

From the starter/chase pickup truck bed, 50-yards down the road, the clustered runners appeared squinty-eyed and anxious, but most were also grinning to various degrees.

The run was a one-mile dash to the finish line, right next to where jets touch down on Kwajalein's runway.

The wind was at the runner's backs. That created an eerie quiet for the runners who managed to almost match the speed of the wind while hearing only the sound of their own breathing and foot patter.

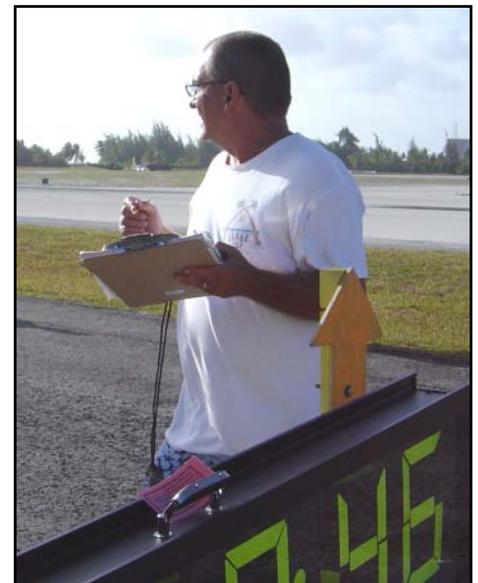
The winds were decent this year, but diminished from the strongest of February. The Running Club used its new finish line display clock with nine-inch digits for the first time. The clock is visible from a quarter mile out, inspiring the runners to sprint to break minute barriers.

First across for the boys was temporary duty Robert Jahn in 5:09. Sailing in behind Rob were Jon Nelson (5:15) and Brent Peterson (5:21).

A total of 10 men finished under six minutes, prompted to sprint by the finish line clock and with more grimace than grin anymore.

Our local teacher runners were impressive. They took spots one, two and three for the ladies in the following order: Lisa Ansley (6:13), Alex McGlenn (6:24) and Christi Cardillo (6:36).

The youngest runners were kindergarteners Sean Hepler (13:22) and Kathryn Montgomery (16:11).



Bob Sholar keeps track of times at the Downwind Dash.

The Social Security Eligible (SSE) Division was completely dominated by Jack Carey in 7:41.



In the most memorable and emotional performance of the evening, Noble Kaluhiokalani, Mike Sakaio, Palepa Smith and Russell Beniamina play *Ku'u Aloha (All My Love)* as Massina McCollum performs a hula in memory of Kaiya Kapahu.

## *A Night of Song and Dance*

# Kaleidoscope of Music showcases Kwajalein musicians and dancers

Article and photos by Dan Adler  
Media Services Manager

I said it last year and I'll say it again this year. The only bad thing about the nearly three-hour long Yokwe Yuk Women's Club Kaleidoscope of Music held Sunday evening is that like all good things, it had to come to an end.

The entertainment included acts

such as tap dancing, nerdy hip hop dancers, a rocked-out version of *Mary Had a Little Lamb*, a beautiful duet performance of a song from the *Phantom of the Opera* and a very emotional and moving hula dance.

Before the evening's entertainment began, Jenny Norwood, Yokwe Yuk Women's Club President, thanked the audience pack-

ing the high school multi-purpose room for helping to raise \$3,500 for the club's Kwajalein High School senior scholarship fund.

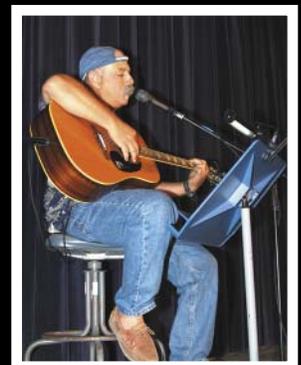
After Norwood's remarks, the ever popular Mistress of Ceremonies, Karla Long, took the podium and said hello in several different languages with the audience repeating each one after her. The most popular greeting of course



Sheila Bigelow, Mike Symanski and Brandon Price



Carrie West and Dick Shields



Andy Carden



Left to right, Billy DeCoster, Jaime Obst, Ron Curtis and Mark Pippitt perform *Whenever You Come Around* and *House at Pooh Corner*.

was, “Hi y’all.”

She said that was the worst her jokes were going to get for the night, but unfortunately, she lied. The groan-inducing jokes lasted all through the program.

Kicking off the evening’s entertainment were Julie Wathen and Allison Kickhofel doing a high-energy tap dance to *Women of Choice*.

High school junior Carrie West and music teacher Dick Shields entertained with a dual clarinet presentation of *Rondo* from *Sonata in C*.

Not to be outdone by the adults and older teens, sixth grader Danielle Rivera turned in two skillful piano selections of *Sonata No. 1 in C* and *Prelude*.

Next up was Andy Carden who has been playing guitar since his early teens. He chose the *Grateful Dead’s Ripple* to play and sing.

High schoolers Ryan DeCoster,

Tyler DeCoster and Alex Shotts displayed their musical talents with *Slow Dancing in a Burning Room*.

Johnny Hadley sang and played piano on his original composition, *Forever*.

Dan Hopkins was next with *Please Don’t Bury Me*.

Loud applause greeted teens Ryan DeCoster, Tiffany Schofield, Colby McGlenn, Dan Valles and Jake Jahnke as they took the stage to play *Thunder*. The performance was notable for McGlenn’s skill on the guitar.

Introduced by Long as, “Our little *Hourglass* girl,” Sheila Bigelow, accompanied by Brandon Price and Mike Symanski sang *I Want To Hold Your Hand* with a very distinctive and pleasing voice.

Dan Eggers, in one of his many appearances of the evening,

**See KALEIDOSCOPE, Page 8**



Massina McCollum



Gregg Washburn



Adult Hip Hop Dance Class



Julie Wathen and Allison Kickhofel



Bill Williamson, Ron Sylvester, Shaggy and David Gibbons

## KALEIDOSCOPE from page 7



Ryan Decoster, Alex Shotts and Tyler DeCoster



Johnny Hadley



Danielle Rivera



Colby McGlinn, Tiffany Schofield, Ryan DeCoster, Jake Jahnke and Dan Valles



Kathy Ann Funk, Gregg Grundon, Janet Golly and Dan Eggers



Left to right, Sheila Bigelow, Mike Symanski, Brandon Price, Dave Gibbons, Marvin Lovato and James Hall

played a *Thought I Landed in Paradise* medley.

Calling themselves *Everything Under the Sun* because of the different music they play, Brandon Price, Marvin Lovato, James Hall, David Gibbons, Mike Symanski and Sheila Bigelow on vocals, performed *Into the Ground*. In a moving tribute, they dedicated their second selection, *Strange Lights On the Radio* to, "A lost child of Kwajalein, Kaiya Kapahu."

With that, Act I came to a close and it was time to stretch the legs and partake of some of the delicious deserts and refreshments during the 20-minute intermission.

Then the rhythmic beat of drums brought everybody back to their seats as Bill Williamson, Ron Sylvester, Shaggy and David Gibbons put on a pulse-pounding drum show that wowed the audience. Talk about getting the blood pumping.

Nerds came out in force next as the Adult Hip Hop Class consisting of Julie Wathen, Allison Kickhofel, Val Bazar, Jenny Schwartz, Dayna Wiley, Alex McGlinn, Valerie Finney, Maricel Lauben and Marea Qasem took the stage wearing some pretty bizarre looking outfits. The group proceeded to do a hilarious 'nerdy' dance the audience really appreciated and gave loud applause for.

The entertainment turned to the cultural side as the voices of Janet Golly and Gregg Grundon united for a duet of *All I Ask of You* from the *Phantom of the Opera*.

Lovers of saxophone music enjoyed the *Kwajalein Saxophone Ensemble* of Keith and Melissa



Master of Ceremonies Karla Long tells one of her groan-inducing jokes.

Peacock, Peter Tubley, Kyle Cassiday, Dane Bishop and Dick Shields as they played *The Right Time* and *Satin Doll*.

One of the best performance groups of the evening was the trio of Laura Smith-Roccatani, Lez Czinege and Dan Eggers. Czinege sang *I Like Trains* with back up from Smith-Roccatani and Eggers. Then Smith-Roccatani absolutely mesmerized the audience with her sultry and smoky rendition of *Fever*.

Greg Washburn followed with a rocked-out version of *Mary Had a Little Lamb*.

The high schoolers pitched in again with the *K Town Kids*. Kyle Cassiday, Kelly Grant, Dan Valles, Robin Loek, Tyler DeCoster and Alex Shotts played *Two Is Better Than One* with vocals by Justin Furgeson and Kori Dowell.



*The K Town Kids*, left to right, Alex Shotts Tyler DeCoster, Kyle Cassiday, Kelly Grant, Justin Ferguson, Kori Dowell and Dan Valles perform *Two Is Better Than One* at the Kaleidoscope of Music Sunday evening.

Keith and Melissa Peacock made another appearance playing *My Favorite Things*.

The performance that audience members will remember for a long time came when *Pure Polynesia* — Russell Beniamina, Noble Kaluhiokalani, Mike Sakaio and Palepa Smith played *Ku'u Aloha (All My Love)* in memory of Kaiya Kapahu. Massina McCollum performed a beautiful hula to the song and she could be seen softly singing along with the music as she gracefully danced. At the end of her hula, she motioned cradling and rocking a child and then, opened her arms and raised them skyward as if saying goodbye. It was a raw emotional moment that everyone must have felt. There couldn't have been too many dry eyes in the room.

As Long took the podium to in-

roduce the next act, she choked up for a few moments and I think she spoke for everyone when she said, "That was beautiful, but it made me a little sad."

Ending the evening on a high note, Mark Pippitt, Ron Curtis, Billy DeCoster and Jaime Obst performed *Whenever You Come Around* and *House on Pooh Corner*. Curtis' mellow voice and DeCoster's skill on the keyboard made the evening's end very enjoyable.

At the end of the program, all the performers and stage hands assembled on stage for some well-deserved applause of appreciation.

As with all such events on Kwajalein, the YYWC's Kaleidoscope couldn't happen without the help of volunteers who give graciously of their time.

The YYWC would like to thank

Dick Shields for handling the lighting and sound and Dan Eggers for coordinating everything, along with his performing. The stage crew consisted of Stephanie Premo, Cayley Corrado, Eve Seelye and Mary McPhatter. Janet Golly was the chairperson for the event, Barb Fronzak was food coordinator, and Jane Russell and Jen Yezek were in charge of the programs. The YYWC Scholarship Committee members are Paula Eggert, Jenny Norwood, Beth Coyne, Nina Burnham and Lauren Traweek.

Everyone involved in the Kaleidoscope deserves the community's thanks and appreciation. Not only do they provide an evening of wonderful entertainment every year, they also show our high school seniors the community cares about them and their futures.



Kyle Cassiday, Dane Bishop, Peter Tubley, Melissa Peacock and Keith Peacock



Dan Eggers, Laura Smith-Roccatani and Lez Czinege

# Youth Center Torch Club National starts 'Go Green' community project

By Jarrid Barrick  
Youth Services Director

The CYSS Namo Weto Youth Center's Torch Club is a Boys and Girls Club of America-chartered leadership council of seventh and eighth grade teens. The Torch Club meets every other week, on Thursday afternoons at the Youth Center. The youth discuss and plan teen activities, voice youth issues, and organize community service projects.

During the 2009-2010 school year the Torch Club has assisted in the CYSS Halloween Carnival, volunteered their services during the Holiday tree lighting ceremony and Santa parade, took part in a Martin Luther King Jr. Day of Service Project, volunteered time to assist in the Youth Sports programs, and continually plan and participate in nearly all Youth Center activities.

Each year, chartered Torch Clubs across the entire nation participate in a Nationally themed Community Service project. The BGCA's National Torch Club Advisors listen to various clubs' input and select a theme for the year's project. This year the BGCA selected a "Go Green" theme, and empowered youth to identify their own issues within their community and devise a strategy to assist.

When the theme was unveiled in January, the Torch Club began to brainstorm ideas that could benefit



Standing, left to right, Kauluwehiokala Kaluhiokalani, Scott Swanby and JJ Wase. Bottom row seated from left to right, Yomoko Kemem, Annie Hepler, Dori DeBrum, Keith Brady, Jun Jun Davis and Andrea Tiffany. The Torch Club members cleaned the Public Gardens on Feb. 27.

Kwajalein. In one such meeting, the members recognized that the Public Gardens are quite neglected. Members wasted no time in attacking this issue. They devised a plan of action, set a date for the clean-up project, and began recruiting other teens to take part.

On Feb. 27, the Torch Club members met at the Youth Center to organize their transportation to the Public Gardens. This small group of Youth leaders were able to recruit extra assistance from other

7th and 8th grade teens, and began the long trek from the Youth Center to the Public Gardens at 4:30 p.m. Armed with only gloves, garbage bags and of course, their iPods, the participants went directly to work when they arrived at the garden. The Club members entered the garden to find nearly the entire area covered in leaves.

With only a couple of hours of daylight available, members quickly decided to work on the center of the garden. In a great display of teamwork and leadership, the teens began to pass out the available rakes found on site, while the others began putting on gardening gloves to move leaves with their hands. Within moments, large piles of leaves were forming, and the teens began grabbing garbage bags to fill.

After a few hours of hard work, teamwork, and a little clowning around, nearly 19 bags of leaves were collected by the nine participating teens. The center of the garden looked as good as new, and the youth were extremely proud of the work they had done.

There is still a lot of raking and maintenance that can be done at the Public Garden. The Torch Club hopes that they were able to set an example for others who may want to help maintain the garden. The youth were able to show what a small group of people can do in a short period of time, when they are motivated and working as one cohesive unit.



Keith Brady with wheelbarrow) and Yomoko Kemem help with the Public Garden cleanup on Feb. 27.

# Seven servicemembers die in Afghanistan

Two Soldiers died March 1 in Bala Murghab, Afghanistan when insurgents attacked their unit using small arms and rocket-propelled grenade fires. The Soldiers were assigned to the 1st Battalion, 508th Parachute Infantry Regiment, 4th Brigade Combat Team, 82nd Airborne Division, Fort Bragg, N.C. Killed were: **Spc. Josiah D. Crumpler**, 27, of Hillsborough, N.C. and **Spc. Matthew D. Huston**, 24, of Athens, Ga.

**Lance Cpl. Carlos A. Aragon**, 19, of Orem, Utah, died March 1 while supporting combat operations in Helmand province, Afghanistan. He was assigned to 4th Light Armored Reconnaissance Battalion, 4th Marine Division, Marine Forces Reserve, based out of

Camp Pendleton, Calif.

**Sgt. Vincent L.C. Owens**, 21, of Fort Smith, Ark., died March 1 at Forward Operating Base Sharana, Afghanistan of wounds suffered earlier that day when enemy forces attacked his vehicle using direct fire in Yosuf Khel. He was assigned to the 3rd Battalion, 187th Infantry Regiment, 3rd Brigade Combat Team, 101st Airborne Division (Air Assault), Fort Campbell, Ky.

**Lance Cpl. Nigel K. Olsen**, 21, of Orem, Utah, died March 4 while supporting combat operations in Helmand province, Afghanistan. He was assigned to the 4th Light Armored Reconnaissance Battalion, 4th Marine Division, Marine Forces Reserve, based

out of Camp Pendleton, Calif.

**Spc. Anthony A. Paci**, 30, of Rockville, Md., died Mar. 4 at Gereshk, Afghanistan of injuries suffered during a vehicle rollover. He was assigned to the 1st Battalion, 17th Infantry, 5th Brigade, 2nd Infantry Division, Joint Base Lewis-McChord, Wash.

**Spc. Alan N. Dikcis**, 21, of Niagara Falls, N.Y., died March 5 in Kandahar, Afghanistan of wounds suffered when enemy forces attacked his vehicle with an improvised explosive device. He was assigned to the 630th Engineer Company (Clearance), 7th Engineer Battalion (Combat Effects), 20th Engineer Brigade (Combat) (Airborne), Fort Drum, N.Y.



## Tuesday, Feb. 23

### MEN'S 'A' LEAGUE

Sunrise vs. Criminals: 23-14  
Podunkers vs. Guppies: 18-1

### MEN'S 'B' LEAGUE

Spartans I Boys vs. JDs: 10-5

### WOMEN'S LEAGUE

Thumbs Up vs. Spartans II Girls: 28-3

## Friday, Feb. 26

### MEN'S 'B' LEAGUE

USAKA vs. JDs: 22-1  
Lallop vs. Spartans II Boys: 22-6

## Wednesday, Feb. 24

### WOMEN'S LEAGUE

Good Times vs. Thumbs Up: 8-4

### MEN'S 'B' LEAGUE

Lallop vs. Rf Hazards: 13-0  
Spartans II Boys vs. Wx Rats: 11-1

## Thursday, Feb. 25

### WOMEN'S LEAGUE

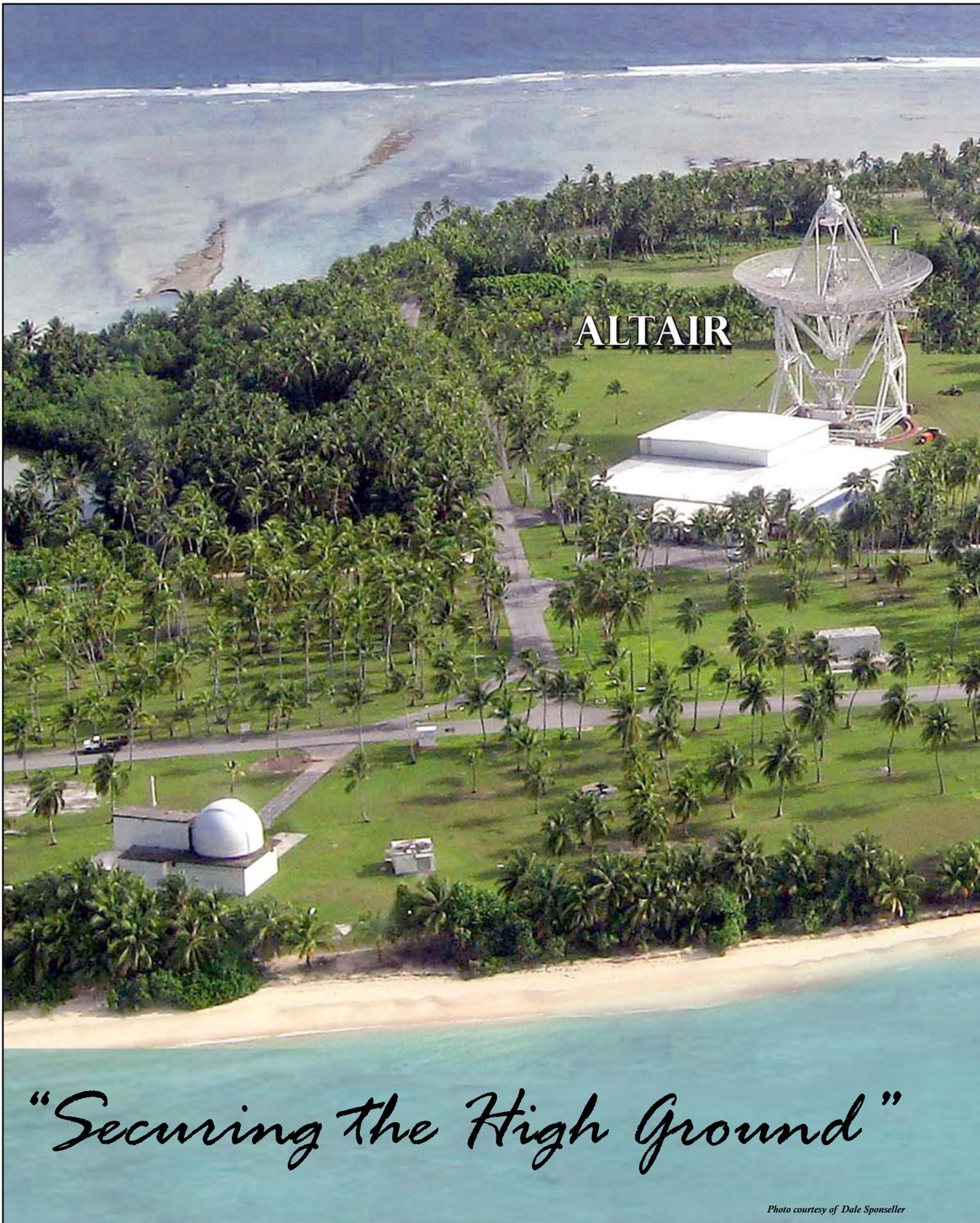
Good Times vs. Spartans I Girls: 8-5

### MEN'S 'A' LEAGUE

Podunkers vs. Sunrise: 16-7  
Criminals vs. Guppies: 9-2

<b>Team Standings</b>		(as of Feb. 26)	
<u>WOMEN'S LEAGUE</u>		<u>MEN'S 'A' LEAGUE</u>	
Good Times:	7-0	Podunkers:	8-1
Spartans I Girls:	4-2	Sunrise:	7-2
Thumbs Up:	2-5	Criminals:	2-7
Spartans II Girls:	0-6	Guppies:	1-8

<b>Team Standings</b>			
<u>MEN'S 'B' LEAGUE</u>			
Spartans I Boys:	6-0	Wx Rats:	2-5
USAKA:	5-1	Rf Hazards:	1-4
Lallop:	5-1	JDs:	0-6
Spartans II Boys:	3-3		



ALTAIR

*“Securing the High Ground”*

*Photo courtesy of Dale Sponseller*



TRADEX

ALCOR

MMW

# Kiernan Reentry Measurements Site keeps eyes on space and missile tests

Article and photos by Dan Adler  
Media Services Manager

The project that would become known as the Kiernan Reentry Measurements Site began in 1959 under the leadership of U.S. Army Lt. Col. Joseph Kiernan. The site was named in honor of Kiernan after he was killed in action in Vietnam in

1967. The endeavor had the purpose of building radars that would emulate what Soviet defense radars saw. It was to be a five-year project.

But over the years the Army, radar technicians, engineers, missile defense and scientists found that the radar site on Roi-Namur could serve other purposes. The five-year project is now entering its 51st year of ser-

vice to America and has developed into the U.S. Army's premier missile testing range and space surveillance site.

KREMS boasts a radar that can see objects the size of basketballs from a distance of Los Angeles, Calif. to New York City. Among the

**See KREMS, Page 14**

## KREMS from Page13

radars is one that can see an interceptor missile strike a target vehicle with such high resolution imaging that operators can count the pieces flying off.

The radars that make up the KREMS suite are:

- TRADEX (Target Resolution and Discrimination Experiment). It started operation in 1962. It was the first radar on Roi. It is a deep space sensor that can back up ALTAIR for deep space surveillance.

- ALTAIR (Advanced Research Project Agency Long-Range Tracking Radar). It began operation in 1970 and is the number one deep space surveillance sensor in the world. Its estimated weight is 450 tons.

- ALCOR (ARPA Lincoln C-band Observable Radar). It started oper-

ating in 1969. It is capable of skin or beacon tracking and is used primarily for missile defense missions.

- MMW (Millimeter-Wave Radar). It began operation in 1985 and has been called the 'crown jewel' of KREMS. It is the highest resolution, longest range imaging sensor on the planet. The weight of the antenna is approximately 80 tons and the five-foot thick concrete base weighs 90 tons.

I went to Roi-Namur on Feb. 28 with Keith Peacock, Roi Radars Manager. He was generous with his time and gave me an extensive tour and an overview of what the radars do, both individually and as a unit.

"All four are different sizes and have different frequencies and they all have different capabilities," he

said. "The interesting part is how they all fit together."

"Size matters with radars," Peacock said. "The larger the structure, the lower the frequency and higher the power. ALTAIR has the lowest frequency but has the biggest beam and the most power so it can see further into space than the other radars, which is why it's used for deep space surveillance. For missile testing missions, ALTAIR is the first sensor to see a missile fired from Vandenberg as it comes over our horizon."

Peacock added, "It can't tell you what things look like. With such a big beam it can't discern shape or dimensions or rotation. That's where a sensor like the millimeter wave (MMW) comes in. It has the highest frequency, thinnest beam, highest resolution and can see shape, size and rotation of an object. It can't see out to deep space but it's great for near Earth. ALCOR and TRADEX are at frequencies and sensitivities in between ALTAIR and MMW."

Peacock introduced me to Dale Sponseller, System Engineer at ALTAIR, as 'Mr. ALTAIR.'

He is called Mr. ALTAIR with good reason. Sponseller has been at ALTAIR since 1992. Prior to that, he worked on one of the very first radar imaging systems in the world.

"ALTAIR started operating in 1970," said Sponseller. "It was a five-year mission to test missiles shot from Vandenberg. ALTAIR was originally built to last for just that five years. But as time went on, other areas that ALTAIR could be used for were found. They discovered in the early '80s that ALTAIR could track satellites. A program was started to evaluate ALTAIR's capabilities in monitoring satellites and new foreign launches from other countries. It was determined that ALTAIR could do a pretty good job."

According to Sponseller, a lot of modifications had to be done to the radar. The characteristics of the antenna had to be improved as the antenna would be used 24/7 instead of just for missions.

"Prior to that a crew would come up, perform a mission and then turn off the radar and it would sit idle until the next mission," he said. "When they started the space track operation, ALTAIR went to 24/7 for satellite and space tracking. They



TRADEX proudly boasts of 47 years of service to the range.

had to beef up a lot of things on the antenna so that mechanically things would work. Software modifications had to be done to talk back and forth with Cheyenne Mountain and get tasking from Cheyenne Mountain. Data had to be collected and sent back to Cheyenne Mountain. That was well before my time here.”

Sponseller added, “Cheyenne Mountain was who ALTAIR worked for at that point in Space Command. They would task us. They would tell us to track a particular satellite and we would go look for it and quite often we would have to do a lot of searching to find it. When we found it, we would track it and collect metric observation data. That would be sent to Cheyenne Mountain where a catalog of satellites, which is a big database, was kept and they would update it with the latest data we provided.”

The satellites catalog/database contains all the satellites that are orbiting Earth, both foreign and domestic. The operation is no longer at Cheyenne Mountain. It has moved to a base near Vandenberg.

“Every day they send us a list of objects to track,” said Sponseller. “We schedule the tracking of the objects based upon when we know they will be above our horizon. With some objects there are better times to track them than others. Some objects are in elliptical-type orbits so it’s better and easier to track the objects when they’re closer in versus when they’re at the far part of their orbit.”

ALTAIR doesn’t track objects for a long period of time. It basically gets a snapshot in time of the elevation, range and other data on a particular object.

“We may collect 10 to 20 observations on a particular satellite,” Sponseller said. “The most frequent we can take an observation is every 10 seconds. So if we’re going to collect six observations, we’re tracking for 60 seconds. Then we move on to the next object on the list. Some of the very far away objects require many pulses to be sent out and received in order to pull the target out of the ‘noise,’ so some of those tracks may last 30 minutes.”

ALTAIR is just one of the many radar systems in the U.S. Space Command suite of sensors that keeps track of all satellites, both foreign

**See KREMS, Page 16**



**The huge antenna dish of ALTAIR towers over the trees on Roi-Namur.**



**The cavernous, three-story high ALTAIR transmitter room keeps the 24/7 mission operating.**

and domestic.

“The things we specialize in are geo-stationary satellites which are in an equatorial orbit,” said Sponseller. “Those are communication and weather satellites that are rotating in their orbit at the same rate the earth is rotating so they appear stationary from the surface of the earth. There are only so many slots in that equatorial orbit where you can put things and a lot of people want to put satellites into those orbits.”

Another important asset KREMS has is TRADEX, which can back up ALTAIR when ALTAIR is down for maintenance. TRADEX takes over the deep space surveillance mission when ALTAIR is unavailable.

Space surveillance has always been important, but is becoming even more so as many more countries are putting up their own satellites.

“We collect data that is used for something called conjunction analysis, which identifies potential collisions between satellites,” Sponseller said. “There was an incident about a year ago where a U.S. satellite and an old Russian satellite ran into each other. That created a lot of debris and increased the likelihood that something else was going to get hit. Orbits are designed depending upon the specific mission of the satellite. There can be multiple satellites in the same orbit as long as they are spaced out along that orbit

and moving in the same direction. Space is big and that’s how collisions have been avoided.”

As great an asset as ALTAIR is, it has its limitations.

“Low frequency radar poses some limitations as to what the sensitivity is and the size of objects that can be tracked,” Sponseller said. “ALTAIR can’t track something as small as a dime but it can track some small items such as debris from an intercept.”

ALTAIR is a low frequency radar which makes for a fairly wide beam in VHF and a slightly narrower beam in UHF. Thus, more things can be seen. When there is an intercept, ALTAIR can detect a lot of things falling off.

While the job of ALTAIR, and to a lesser extent, TRADEX, is to be the ‘bird dog’ that points the way to objects, MMW and ALCOR handle getting high resolution images of satellites and intercept missions because they are higher frequency and higher bandwidth.

Sponseller said that on the other end of the beam width spectrum, MMW’s beam is like looking through a straw, however, MMW can get a precise, high resolution image of particular objects. MMW can’t see a wide area though. It would take 4,133 MMW beams to equal one ALTAIR VHF beam. But unlike ALTAIR, it is capable of seeing something as small as a dime with great detail.

In fact, it can see in such high resolution that when MMW is calibrated, wires slightly larger in diameter than a human hair are dropped from balloons and MMW can see them from a distance of up to 10 kilometers.

“That’s what they’re good at,” Sponseller said. “They can tell whether an object is tumbling or rotating, what its orientation is, if it has solar panels sticking out, or if something did not deploy properly. They can do a lot of detailed assessment of satellites. They can see things that ALTAIR can’t.”

He added, “All of these radars were built to complement each other. ALTAIR was built to be a search and acquisition source. ALTAIR finds objects and then hands over those objects to the other sensors that don’t have the capability of finding objects on their own.”

Once ALTAIR finds an object, the other sensors are cued to look where ALTAIR is looking and they can see in more detail. ALTAIR gives the overview and the other sensors give more detail because they have the higher resolution. But since they have difficulty finding objects on their own, they have to cue off ALTAIR.

According to Sponseller, coordinating those cues is one of the roles of Kwajalein Mission Control Center. During missions, ALTAIR data goes down to KMCC along with data from all of the other sensors. They take data from ALTAIR during a missile test mission and tell the other sensors where to point their antennas and start tracking. KMCC is a coordinator and consolidator of information from all of the sensors.

Sponseller said that information gathered during a Minuteman mission may include, “Do we see the re-entry vehicle, the bus and the tank [different stages of the rocket]?”

Sponseller said, “ALTAIR will make the initial call that yes, there are three pieces and they are spaced out as they are expected to be.” He stressed that all missions are very well choreographed and well-planned before anything happens.

Sponseller explained that ALTAIR calibration is done every day because space operations are a 24/7 mission.

“At 3 p.m. every afternoon, we



Radiation monitoring displays are in every radar’s control room and transmitter room showing the areas being radiated at any given time.

make sure ALTAIR is up and running and calibrated so we can turn things over to Space Operations and they track all night long,” said Sponseller. “They track 128 hours each week to find new foreign launches and gather data for the catalog. The other 40 hours in the week, from 7 a.m. to 3 p.m., is when we do maintenance and calibration. TRADEX also tracks for 10 hours each week and is capable of providing very useful work for Space Command.”

Another main job of ALTAIR is keeping track of new foreign launches.

According to Sponseller, “It’s a capability ALTAIR has that is very unique. Our location near the equator in the middle of the Pacific Ocean allows us to view approximately 80 percent of foreign launches. That’s because nations such as Russia, Japan and China shoot to the east because of the earth’s rotation and they use the earth’s rotation to get into orbit.”

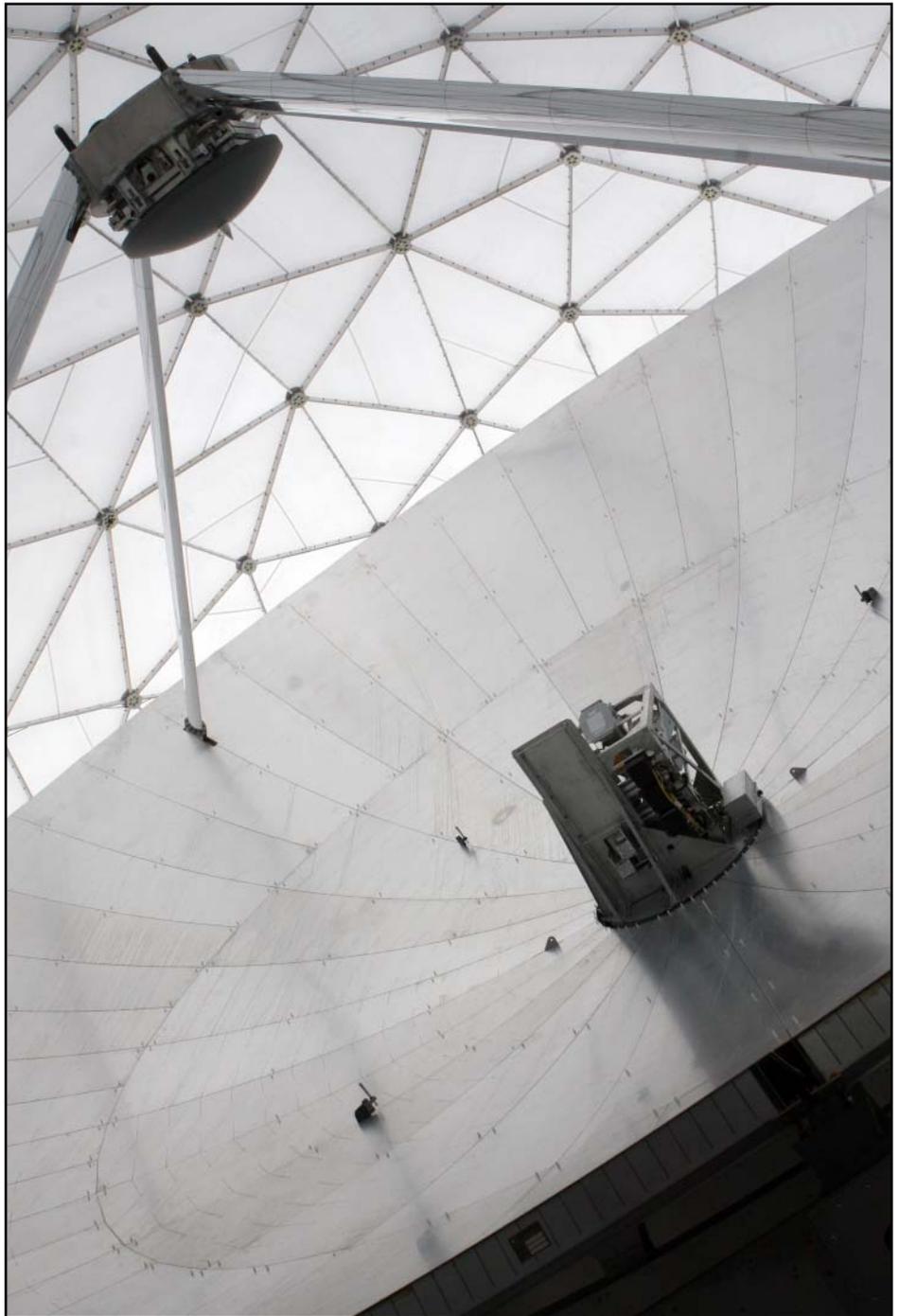
When launches are coming from Russia, Japan or China, they launch in Kwajalein’s direction and ALTAIR is the first radar in the space surveillance network that can see those launches.

“It’s important to get information as soon as possible about a new foreign launch, otherwise it’s very difficult to find the satellites they are putting up,” Sponseller said. “If you start looking for it a few days later, space is a very big thing and it’s difficult to search.”

For a baseball fan, a good analogy would be a batter hitting a fly ball to the outfield and the outfielder doesn’t see it come off the bat or takes his eye off of it. Instead of being able to track the ball into his glove, all he can do is scan the sky and hope he sees it in time to catch it.

According to Sponseller, since the Internet came into being there is advance notice of most foreign launches. All nations launching rockets into space have to file a Notice to Airmen and other documents by international agreement. In addition, many Web sites have information as to when launches will take place. Before the days of the Internet however, most foreign launches were unannounced.

“It’s a lot easier now than in the old days when you might be doing antenna maintenance and you



**The MMW antenna dish is capable of precise, high resolution radar imaging.**

would get a launch detection report from Cheyenne Mountain and you’d have to start scanning and looking for objects within 15 or 20 minutes,” said Sponseller. “You would have to get workers off the antenna, make sure everything was put back together and get the system up and running. Even today, ALTAIR runs on a 15-minute recall. That means we can get a message that says they need us up and tracking a satellite within 15 minutes.”

Sponseller recalls an incident a few months ago when NASA feared

an object might strike the International Space Station. “TRADEX searched one way and ALTAIR searched another. TRADEX saw the object and was able to collect observations that were sent to NASA who performed a conjunction analysis and determined the threat wasn’t as dire as thought.”

Although ALTAIR sees foreign launches, it is not part of any ‘early warning’ system. Other U.S. radars around the world serve that

**See KREMS, Page 18**

function.

ALTAIR has other missions such as science data collection. It scans the ionosphere for the Air Force Research Lab looking for ionospheric disturbances.

“ALTAIR stays very busy being involved in all of that activity,” Sponseller said. “We’ve also done meteor studies in the past. ALTAIR can see the ionized trails of meteors very easily. Over the years, it’s been determined that ALTAIR can do many things and we have a lot of customers who take advantage of that.”

Sponseller estimates that ALTAIR has done well over one million space tracks thus far and handles 40-50 foreign launches each year.

“Right now, China is putting up a lot of satellites,” he said. “They have a very active space program. Russia is continuing to put up satellites. India is also putting up satellites. Iran has even launched a couple of satellites.”

As with all radar/sensor operations, safety is of primary concern, especially when it comes to dangerous radio frequency.

According to Sponseller, although RF is a hazard with ALTAIR, the antenna is not lowered below two degrees in elevation during normal operations so the areas outside the fenced-in lot are safe for people to

be in.

However, “For re-entry missions we actually go down to one degree and when we do that, we go into RF hazards,” he said. “When RF hazards are declared, the police sweep the island to make sure no one is outside. Then the area is declared green which means it’s clear. The marina is closed and guards close down the roadways and the reef. They shut down this half of the island during RF hazards.”

A radiation monitoring system also adds to safety. For instance, if someone goes up to work on the TRADEX roof, ALTAIR can’t radiate into that area. If an aircraft is coming in, ALTAIR can’t radiate in the landing area. If ALTAIR is engaged in a tracking operation, the aircraft can’t land until the operation is completed. Since the Roi flight schedule is known, ALTAIR may contact Roi flight operations and tell them not to launch an aircraft at a certain time.

The radiation monitoring system is computerized and recently went through an upgrade. In addition, there are key interlocks that prevent the antenna from being turned on accidentally while people are in the fenced-in area.

All of the radar sites and transmitter rooms have a display monitor showing which areas are being radi-

ated at any given time.

“It’s a very elaborate and complex safety system here with all of the radars working together. We don’t do anything that would jeopardize safety,” said Sponseller.

Continuing the tour with Peacock, he touched on the huge Kwajalein Modernization and Remoting Project done in the late ’90s. “KMAR upgraded ’50s and ’60s technology. The original equipment was built by GTE and never intended for anybody else to use it, so it was very specialized with a large mainframe computer. It was state-of-the-art at the time. The other radars have similar histories. They were all built by different people at different times. KMAR was a big effort in the late ’90s to reduce footprint and replace obsolete equipment with modern equivalents. The antenna and transmitters remained as ‘legacy’ systems.”

Peacock added, “What could be made common was made common since all the radars operate differently. Now we have technology from the ’90s and the 2000’s and we do continuous upgrades. It’s all much more maintainable. That’s why we’ve been able to draw down our staff and commute less people because a lot of this now can be serviced by the same group. With the original stuff you had guys who only worried about a couple of racks of equipment, so you had to have a lot of people. For example, there used to be 100 people in the ALTAIR building and now there are 28.”

Robert Linstead, Hardware Engineer for Common Digital Equipment, was on Kwajalein in 1998 and was involved in KMAR. He said, “KMAR began with MMW, ALCOR was second, ALTAIR was third and TRADEX was fourth. All of the equipment is very similar with the idea being commonality. That way, it doesn’t take as many specialized individuals to work on specialized equipment. The idea was to use common brands of equipment wherever possible. That reduces the complexity. We can also get support for that common equipment. The equipment performs admirably and is second to none. It’s also very versatile.”

As an example of commonality, both MMW and ALCOR use the same software.

Peacock said, “It’s a continuous process [upgrading]. We can’t stop.

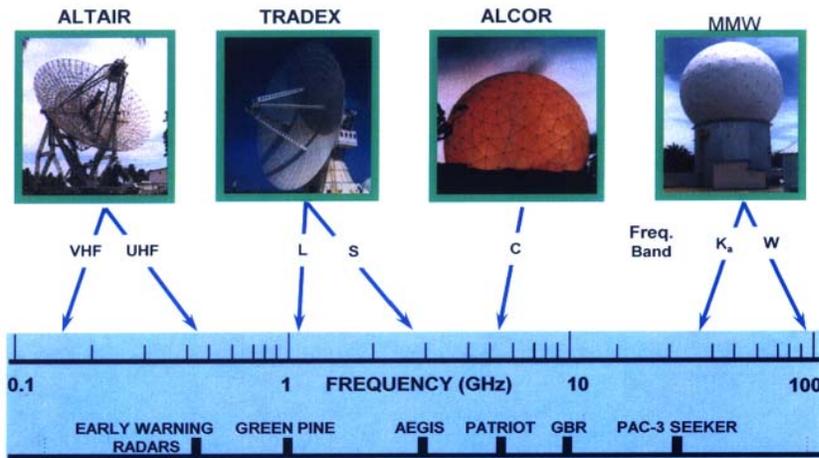


**Keith Peacock, Roi Radars Manager, shows wires about the diameter of a human hair used to calibrate the Millimeter Wave Radar. The radar can see and track such small objects at a distance of 10 kilometers.**



UNCLASSIFIED

# Synergism of KREMS Radars



Sensor Major Functions		
<u>Long Range Acquisition</u>	<u>Midcourse/Reentry</u>	<u>Intercept Engagement</u>
ALCOR	Beacon Track	Target Wideband Length
TRADEX	Multi-target tracking	RV Tracking + Kill Assessment
ALTAIR	Complex Assessment	Interceptor Tracking + Kill Assessment
MMW	High Resolution Imaging	Kill Assessment
		Hit Point/ Miss Distance Determination

8

The above shows how the KREMS radars work together in support of missions.

Some of our hardware has passed the point of no return as far as being able to fix it.”

Linstead agreed, “We always have to look at what’s becoming obsolete and come up with a plan to support or replace it, but we always keep our option of reverting back in case new software doesn’t work.”

Of course, all networking and communications are classified and are on a classified network connected to KMCC.

There is also a mini mission control center in the ALTAIR building where missions could be run from if for some reason the Kwajalein Control Center couldn’t be used. The mini mission control was Lt. Col. Harold Buhl’s last project before he left. And on Kwajalein, there is a copy of the ALTAIR console room in Building 1010.

“There is a big push for redundancy and the elimination of single points of failure,” said Peacock.

The transmitter ‘engine’ that runs the ALTAIR VHF and UHF frequencies which allows it to have the wide

beam, long-range viewing capability is located in a cavernous, three-story room where the enormous transmitter hums very loudly. It can be a dangerous place as practically everything in the room is run with as much as 40,000 volts of electricity. The ALTAIR transmitter still uses a lot of vacuum tube technology to run the UHF frequency and those vacuum tubes require very high voltage.

“The transmitter guys deal with a lot of power and a lot of energy daily,” said Peacock. “Old transmitter guys are the best because they’re careful. The guys who work in here have to be experts in a lot of things. They have to know heavy equipment, RF safety and plumbing because they deal with a lot of pumps. They have to keep the temperature just right in here. Most of them are welders too. Sometimes it’s hard to find guys who understand how all of this works.”

Gene Littlefield, Eckard Natter and David Castle are three of the transmitter crew I met. Natter and Littlefield are referred to as ‘graybeards’

due to the many decades they have worked with transmitters. Castle is new to the crew.

There are three shifts to keep the ALTAIR radar up and running on a 24/7 basis. They monitor the transmitter for any problems. They watch the console displays in the transmitter control room diligently.

What kind of problems can happen in a transmitter room?

“We have lots of power coming from the power plant and lots of water circulating so the transmitter has a lot of built-in protection equipment,” said Littlefield. “We have all kinds of interlocks to protect against voltage surge and RF interference. There’s a thousand things that could shut it [the transmitter] off. Only one operating condition is acceptable and that’s when everything works. So we’re constantly looking at all the little idiosyncrasies and working to keep things running. We listen, we look for smoke and we watch for water puddles.”

See KREMS, Page 20

The Kwajalein Hourglass

## KREMS from page 20

Tanner said laughingly, “If you walk in water or you can’t see across the room because of smoke, you know something is wrong.”

The other three radars have their own transmitters.

The immense ALTAIR antenna requires constant maintenance. Corrosion control and painting is ongoing. “By the time they get done painting it they have to start over again,” Peacock said. “All of the metal on ALTAIR is the original metal.”

ALTAIR does not have a dome for obvious reasons — the size and cost of such a structure.

TRADEX does not have a dome either because any dome large enough would crush the roof of the TRADEX building.

Unlike the 24/7 mission that ALTAIR has, TRADEX, MMW and ALCOR operate a normal eight-hour day schedule. KMAR systems were designed for three primary operators during most missions, but there are many more people involved. This is true of all KREMS radars.

Peacock agrees that MMW is the ‘crown jewel’ of the radar suite due to the high resolution imaging it is capable of. During an intercept mission, Peacock said, “We can see the contact and the pieces flying off. There’s a lot of interest in that. The customers for these missions are interested in everything. That’s why imaging radar is so important. MMW is one-of-a-kind and was designed by Lincoln Labs. It’s also our newest one.”

Peacock emphasized that all of the KREMS radars are very capable in stand-alone operation. “Each has particular strengths and weaknesses and they all have their own unique missions. The RTS range gains synergy by having the KREMS radars work together to satisfy customer requirements.”

After more than four hours of touring the radars and the transmitter rooms and listening to the incredibly smart people who run KREMS, I was down to my last brain cell. I have always had respect and admiration for the work those people do before my tour and that has only increased.

There are many reasons why Reagan Test Site is the premier range in the world. It’s the radars and sensors for sure, but more than that, it’s the people who keep those radars and sensors operating.

*The Kwajalein Hourglass*



View of ALCOR from inside the dome.



An old vacuum tube and a modification designed by KREMS engineers to replace it with.

**KRS and CMSI Job Listings for On-Island Positions will be available at the Kwajalein, Roi-Namur and Ebeye Dock Security Check Point bulletin boards, the bulletin board by the Continental Travel Office, the Roi-Namur Terminal/Post Office bulletin board and at Human Resources in Building 700. Job Listings for Contract Positions will be available at [www.krsjv.com](http://www.krsjv.com), on the bulletin board by the Continental Travel Office and on the Roi-Namur/Post Office bulletin board. Full job descriptions and requirements for Contract openings are located online at [www.krsjv.com](http://www.krsjv.com).**

**NEED EXTRA MONEY?** KRS employment applications are continually accepted for Casual Positions in the Community Services Departments, Medical Department and the HR Temp Pool. Some of the Casual positions are: Recreation Aides, Medical Office, Media Services Specialist, Substitute Teacher, and HR Temp Pool Office Support. Questions? Call 54916.

THE UNIVERSITY OF MARYLAND is pleased to announce BIOL101, Concepts of Biology (3). An introduction to living things in light of knowledge of physical, chemical, and biological principles. The organization, processes, interdependence, and variety of living organisms are explored. Emphasis is on understanding the impact of biological knowledge on human societies. Current events that involve biological systems are considered. It will be held from 6-9 p.m., Wednesday and Friday beginning March 22, at the high school. Instructor is Dr. Dierdre Hall. Please call Jane at 52800 for instructions on how to register for this Face to Face class.

#### WANTED

CHILDREN'S OUTDOOR Little Tikes or Step 2 like equipment or toys. Call Crystal at 54254.

#### LOST

WILEY SUNGLASSES with fisherman strap, lost on Brandon Field March 3. Please return to

## Religious Services

### Catholic

5:30 p.m., Saturday, in Island Memorial chapel.

9:15 a.m., Sunday, in Island Memorial Chapel.

4:45 p.m., Monday & Friday, in Island Memorial Chapel.

7 a.m., Tuesday & Thursday, in Island Memorial Chapel.

11:40 a.m., Wednesday, in Island Memorial Chapel.

Reconciliation half hour before all masses or by appointment with Fr. Poole at 5-3579/5-3767.

### Protestant

#### Sunday

8 and 10:45 a.m., on Kwaj and Roi-Namur service at 4 p.m.

### Baptist

9:40 a.m., Sunday, in elementary school music room.

### Latter-day Saints

10 a.m., Sunday, in

Corlett Recreation Center, Room 3.

### Jewish services

Last Friday of the month in the Religious Education Building. Times will vary. Contact the Chaplain's office, 53505, for more information.

Murph. Call 56082 or 54840.

HEART RATE MONITOR chest clip., black plastic with elastic strap to hook around your heart area, may have the word "Polar" on it. Lost on March 2 in CRC Room 7 after a 6 a.m. work out class. Call Amy at 52681 if you picked it up.

#### PATIO SALE

MONDAY, 7:30 a.m.-12:30 p.m., Quarters 460-B. PCS sale.

MONDAY, 8 a.m.-noon, quarters 137-F&C, 136-B&D&E. Multi-family sale, everything you need.

#### FOR SALE

PCS SALE: full-size sofa, chair, portable dishwasher, patio matting, shelves, ceiling fans, wet suits, weed eater and desk. Call 52140 or 58751.

SAMSUNG COMPUTER monitor, 18 inches, black, perfect condition, got a laptop now, don't need anymore. Call Kathy 5-2364.

STAINLESS STEEL gas BBQ burner, \$20, Universal fit for two control knobs, 20x4 inches. Call 51061.

BLACK LEATHER swivel rocker with foot stool, \$50, DVD player, \$20 and VHS player, \$10. Call 53569.

BISSELL POWERFORCE bag-less vacuum cleaner, \$35; various lawn furniture, \$1 each; recliner, \$20; nine-piece Chefmate knife set with wooden holder, \$20; baby high chair, \$10 and glider chair, \$40. Call 52864.

SUN CHOPPER aluminum bike, completely restored, new complete custom paint, all bearings, nickel chain, seat, pedals, handle bars and grips. 483-A Palm St. or call 52642.

#### COMMUNITY NOTICES

THE KWAJ RUNNING CLUB is holding its annual "Running of the Green" event, a 2.4-mile run/walk starting at 5 p.m., March 15, in front of the library. Don't forget to wear your green!! Walkers are welcome.

SCHOOL ADVISORY COUNCIL meeting will be at 7 p.m., March 17, in the Elementary School Library. The public is invited to attend. Your input is always appreciated.

COME OUT TO OCEAN VIEW and help us Celebrate St. Paddy's Day March 17. Wear your St. Paddy's attire and the first drink is free. Karaoke will be available. Appetizers while supplies last starting at 7:00PM. Questions? Contact Erik Wills 5-3338

PLEASE COME AND support our young artists, grades 4-6, at their Art Show from 7-8:30 p.m., March 19, in the Coconut Room at the Elementary School.

THE NEXT YOUTH ACTION Council meeting is from 6:30-7:30 p.m., March 19, at the Youth Center. Everyone interested in Kwajalein youth issues is welcome. Questions, contact Cheri Malloy at 53606.

CYSS START SMART Tee Ball 2010 is open to boys and girls ages three to five (Pre-K). Registration is open Feb. 23-March 20. Program dates are April 7-May 12. Call 52158 for registration information, building 356 and 53796 for program information.

R.D.S. KARAOKE will be hosting karaoke from 7:30 p.m. until close, March 20, at the Vet's Hall. Questions may be addressed to Dan Hopkins at 52349.

AUDITIONS FOR THE next Community Activities Dinner Theater Production, "I'm Getting Murdered in the Morning" will be held at 5 p.m., March 23 and at 7 p.m., March 24 in CRC room one. Preview copies of the script available at the Grace Sherwood Library.

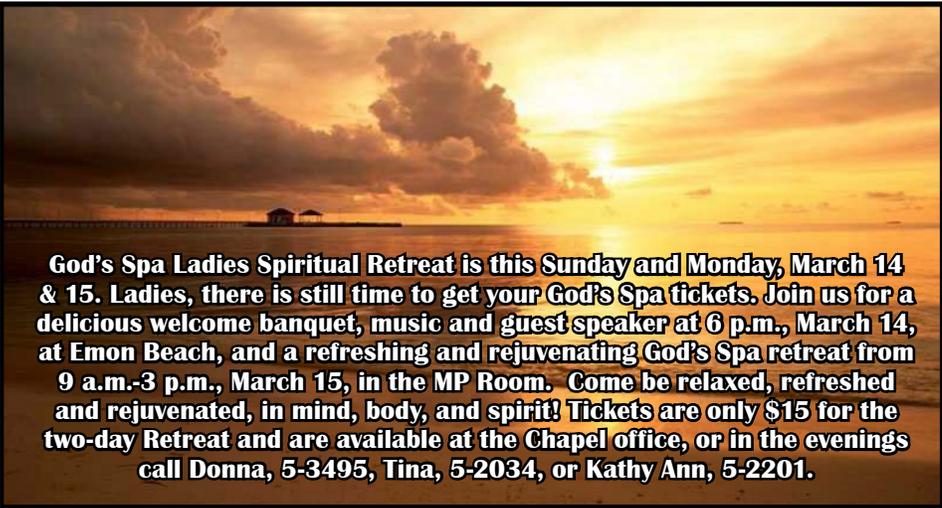
QUARTERLY 401(K) OPEN Enrollment, don't put retirement savings off for a rainy day. Start saving today! Your 401(k) plan at Chugach can be a great place to start. If you are interested in enrolling or currently contributing to the plan and wish to increase your deferral percentage, open enrollment is now occurring thru March 24 and any changes will be effective for the April 1st quarter. Contact Prescilla at 50788 for more information.

## USAKA's Volunteer Income Tax Assistance Program (VITA) is Ready to Help Prepare and File Returns for Kwajalein & Roi Residents

The IRS VITA Program is ready to help Kwajalein residents prepare and file basic income tax returns. The program is free. The program is not designed to deal with complicated tax matters. The filing deadline for overseas filers is June 15. If any tax is owed, the tax must be paid by April 15 to avoid accruing interest and penalties. For extensions needed beyond June 15, filers must submit either a Form 2350 or Form 4868.

Please be prepared to bring in all relevant tax related documents (W-2, 1099, expense, and income info). Call Alison Bush at 53778 or Nelda Reynolds at 5-3417 for more details on using this service. Limited tax publications are available outside the USAKA/RTS Legal Office, building 730 and forms can be found on the internet at [www.irs.gov](http://www.irs.gov).





**God's Spa Ladies Spiritual Retreat is this Sunday and Monday, March 14 & 15. Ladies, there is still time to get your God's Spa tickets. Join us for a delicious welcome banquet, music and guest speaker at 6 p.m., March 14, at Emon Beach, and a refreshing and rejuvenating God's Spa retreat from 9 a.m.-3 p.m., March 15, in the MP Room. Come be relaxed, refreshed and rejuvenated, in mind, body, and spirit! Tickets are only \$15 for the two-day Retreat and are available at the Chapel office, or in the evenings call Donna, 5-3495, Tina, 5-2034, or Kathy Ann, 5-2201.**

**BEER, BRATS AND BOWLING will be 7-11 p.m., March 13. Admission is free, games cost \$2.25 and shoe rentals cost \$1.50. Beer and brats will be available for purchase. Adults only, please.**

BASKETBALL SEASON 2010 is here. Register your team between March 15-26. There is a \$100 fee per team. The season will be from April 6-May 20. Sign up at Community Activities, building 805, or call 53331. There will be a manager's meeting at 5:15 p.m., March 26, in the CA conference room, building 805.

OPEN RECREATION EVENT "Boys Night Out" will be from 6-9 p.m., March 27. Register at CYSS Central Registration Office between March 16-20. Space is limited. For more information, call 52158.

MOBILE KITCHEN DINNER on Emon Beach March 27. Menu to include seafood alfredo with steamed broccoli, Caesar salad, parmesan garlic bread with olive oil and balsamic vinegar, and assorted appetizer sampler, with fresh fruit parfait for dessert. Cost is \$30 for meal card holders and \$35 for non-meal card holders. Seating is limited. For Payment see Maria Elena Curtiss, 58228, at Retail Services Office, building 805. Retail Office is open from 1-5 p.m., Tuesday-Saturday.

KWAJALEIN YACHT CLUB is sponsoring the Chili Cook-off in conjunction with the 10th Annual Spring Break Music Festival on March 28. Bring your best homemade chili (Original, Traditional, Hottest) to Emon Beach by 2:30 p.m., March 28th for judging; open to the public at 3 p.m. Entry forms are on Mini-Mall bulletin board and due by March 26. Contact Mark at 53244 or mark\_long@kwajachtclub.com.

MONTHLY ISLAND Orientation begins at 12:45 p.m., March 31, in CAC room six. It is required for all new island arrivals. Please bring your employee or clock number with you. The Island Orientation is not recommended for dependent children under the age 10. Questions, call KRS ES&H at 51134.

ROI DIABETIC CLINIC Lab will be drawn on March 23-24. Clinic will be held on April 3. Please call the Dispensary at 56223 for appointments.

REGISTER NOW until April 2 for the Spring Bowling League. The season will be Tuesday nights, April 6-May 25. Cost is \$55 per person or \$65 per person with shoes. Register at Community Activities, building 805, 53331.

THE ARMY VETERINARIAN will be on island from March 31-April 2. Owners wishing to make an appointment should call Jenny at Veterinary Services, 52017.

REGITSTER FOR INNER-TUBE Water Polo March 23-April 2. The season will be from April 6-May 8. Cost is \$100 per team. Register at Community Activities, building 805. Questions, call Mandie, 53331.

KWAJALEIN PHOTOGRAPHY EXHIBIT will be 10 a.m.-2 p.m., April 19, in the MP Room, in conjunction with the Spring Craft Fair. Kwajalein Atoll residents display their photographic talents in this annual exhibit! All photos must have been taken in the Kwajalein Atoll. Categories include Kwajalein at Work, Kwajalein Atoll Recreation, Kwajalein Atoll Nature, Marshallese Culture, Kwajalein Underwater, Junior Photographer, and Open. Photographers submit entry forms no later than April 14. Instructional packets and entry forms available from Sandy Herrington, 54152 or 58990, kwaj96555@yahoo.com, or Linn Ezell, 51990, linn@bart-ezell.com. Come and vote for the best in each category. Top selections may be used in the 2011 Kwajalein Calendar!

ENNUBIRR CHILDREN'S Christmas Fund, needs a new T-shirt design for the Annual Chili Cook-Off 2010. The ECCF is a non-profit organization on Roi-Namur. Let your artistic muse come out to play to create a fun new T-shirt design for us. The theme is for a chili cook-off. The artist of the selected logo will receive a \$100 cash prize and will forever have their name associated with that T-shirt design. The logo must be in color. You

**Due to a shortage of rainfall recently, there has been a substantial increase in the use of the non-potable, reclaimed water supply on Kwajalein for watering of lawns and outdoor plants. It is requested that residents limit the amount of watering to no more than 30 minutes per day per area.**

<i>Café Pacific</i>						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	March 20
Carved round top	Grilled pork chops	Beef stroganoff	Corned beef/cabbage	Kalua pork	Swiss steak	Savory pot roast
Vegetble ragu	Herb roast chicken	Chicken piccata	Irish lamb stew	Chicken nuggets	Chicken/peapod stir-fry	Turkey tetrazzini
Chicken ala orange	Ham marco polo	Broccoli/rice casserole	Shepards pie	Tofu/broccoli stir-fry	Breaded herb cod	Beans in broth
Grill: Brunch station open	Grill: Brunch station open	Grill: Sloppy joes	Grill: N/A	Grill: Grilled cheese	Grill: N/A	Grill: Chili dog
Tonight	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
BBQ meatballs	Cantonese roast	Hamburger steak	Kwaj fried chicken	Carved London broil	Hawaiian ham steak	Build your own pizza
Cajun chicken	Tandouri chicken	Turkey/peapod stir-fry	Honey lime mahi	Garlic roast chicken	Shoyu chicken	Chicken cacciatore
Penne with herbs	Fried eggplant	Collard greens	Hawaiian chopped steak	Baked potatoes	Turkey white bean chili	Tortellini carbonara

**Deadline to submit a Wanted, Lost, For Sale, Patio Sale or Community Notice is Wednesday at noon. Send ads and notices to [hourglass@smdck.smdc.army.mil](mailto:hourglass@smdck.smdc.army.mil). Ads received after the deadline may not make into that week's issue.**

can submit as many designs as you like. Please include your signature and date in the design. The contest will end April 30. Mail your design(s) to ECCF Committee, P.O. BOX 8255, APO, AP, 96557. Or you can e-mail your logo design to [jlcoleman2002@yahoo.com](mailto:jlcoleman2002@yahoo.com) or [freeatlast39@hotmail.com](mailto:freeatlast39@hotmail.com). Questions may be directed to Joe Coleman at 59368, or Laura Pasquarella-Swain at 56048.

THE KWAJ. LODGE check-in time is 3 p.m. and check-out time is 11 a.m. daily. The Lodge staff will do the best they can to accommodate requests for early check-ins, late check-outs, specific floors and rooms. The Lodge confirmation guarantees only that a room/bed will be available upon check-in, they do not guarantee location. Questions, contact the Lodge Reservations Desk at 53477.

THE NEW CWF Kwajalein Cookbook is still available and on sale Mondays from 10 a.m.-1 p.m., downtown by the Shoppette. They are also available at the Chapel Office. These beautiful cookbooks stuffed with delicious recipes from your fellow Kwaj residents make great gifts for any occasion and are only \$20 each. Stop by and pick up yours!

VEHICLE OPERATORS are reminded to use your low beams when approaching oncoming vehicles, bicyclists and pedestrians during the hours of darkness to avoid potential accidents or injuries. If you have any questions regarding your headlights please contact Automotive Production Control at 53568.

KEEP YOUR ENERGY bills out of hot water. Water heating is the third largest expense in the home. It typically accounts for 12 percent of our electric bill. How can we save money? Use less hot water, turn down the water heater's thermostat, insulate your water heater and buy a new, more efficient model.

HOUSING NOTICE: If you have purchased and erected one of the folding portable sunshades at your quarters and intend to leave it in position as a gazebo or patio cover you will need to submit a Building Permit application. Please email or call Billy Abston at 54840 for a permit application or if you have questions.

HOUSING NOTICE: Please take the time to perform periodic inspections and maintenance for all television antennas installed on family housing exteriors. This is a resident responsibility. You can prolong the life of your antenna and mounting bracket by occasionally rinsing it with water. This is especially true on the square (pizza box) antennas. Questions, contact Jane Abston at



**March 2010 Events Possible Points**

- |   |  |
|---|--|
| <p><b>1. Ivey Gym Demonstration</b><br/> <b>March 24 @ 11:45am</b></p> <p><b>2. Wellness Seminar</b><br/> <b>"Fitting in Fitness"</b><br/> <b>March 26 @ 6:30pm</b></p> <p><b>3. Coconut Room (Elem School)</b><br/> <b>"Walk the Rock" Kickoff</b><br/> <b>Starting March 30</b></p> | <p><b>10</b></p> <p><b>5</b></p> <p><b>10+</b></p> |
|---|--|



Passport photos will be taken from 3-4 p.m., March 18, in building 730, USAKA TOC building, room 124, behind the Post Office. Cost is \$10 per set. Passport applications are available outside the USAKA Legal Office entrance. Questions, call Nelda Reynolds at 5-3417.

- KPD would like to remind USAKA residents and visitors of updated USAKA regulation 190-41, Control of Retail Items and Resale of Goods; *"It is a violation of this regulation for an authorized person with shopping privileges to give or resale any retail item to anyone that does not have shopping or purchasing privileges"*. A retail item is described as any item sold at a USAKA/RTS retail facility, including perishable food items.
- An important change to this regulation is the new restriction regarding cooked or prepared food processing through the Dock Security Checkpoint. This is no longer allowed without an exception to policy approved by the USAKA post commander or designated representative.
- Questions, call 5-5059

53288.

THE PEST CONTROL OFFICE has received several complaints about pet owners not picking up after their pets. USAKA regulation 210-08 3.7.4 states animal feces will be picked up immediately by owner or responsible person and disposed in trash container. The owner must have in their possession items capable of picking up and disposing of animal

feces. During routine inspections in the housing areas this department has noticed several fenced in back yards with pet dropping left for days. The above regulation still applies if animals are left outside in a fenced in areas; you must pick up after your pet immediately. The regulation also applies if children are walking their pets; they too must pick up after them. This is a public health issue so please pick up after your pet.

# Range operations scheduled for March 16-17

Range operations are scheduled for March 16-17. The caution times are for 1 p.m. through 6 a.m. on March 16 and 6 a.m. through 4:15 p.m. on March 17.

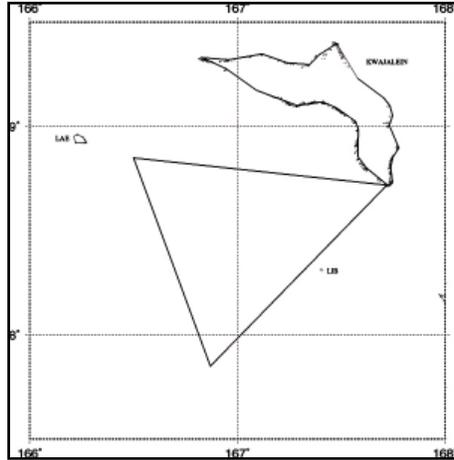
During these times, a closed caution area will be in effect in the open ocean west of Kwajalein Island. The caution area extends from the surface to unlimited altitude.

The west reef south of Legan Island will be closed to all marine traffic during the caution times. The mid-atoll corridor will not be closed.

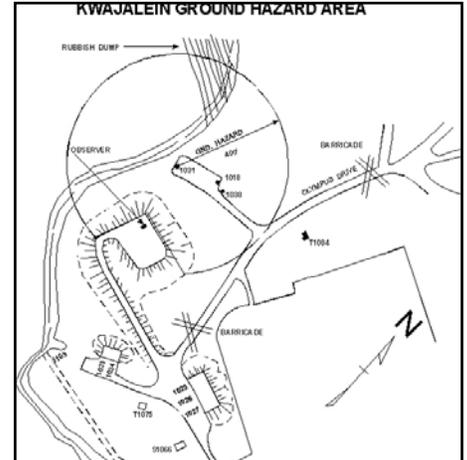
Questions regarding the above safety requirements should be directed to USAKA Command Safety Directorate, Range Safety Officer, 51910.

Juon ien komelmel enaj koman ilo Juje 16 March 2010 im Wonje 17 March 2010. Awa ko im enaj ijino kokemelmel in ie ilo 1:00 awa elkin raelep non 6:00 awa jota ilo 16 March, im 6:00 awa jibon lok non 4:15 jota ilo 17 March. Ijoko im ejab melim drelon e malo eo ej jebole iturilik in Kwajalein Island.

Malo eo ej jebole iturok turilik in Legan Island enaj kilok im wan ejerakrok ko rejab maron dre-



Surface to air caution



Ground caution area

lon e. Mid Corridor enaj bellok.

Non melele ko relap lok kebak USAKA Com-

mand Safety Directorate Kwajalein Range Safety Officer ilo extension 5-1910.

**Walk the Rock**

KFIS Walkers **BIG DIFFERENCE**  
little steps... BIG DIFFERENCE

**Physical Activity Challenge**  
Kwaj & Bol  
March 30 - May 8

Walk the Rock is a 6-week program designed to encourage participants to enhance overall health and physical activity levels by accumulating 10,000 steps each day.

### Program Benefits

- Motivates participants to start and maintain a regular exercise program.
- Easy to use pedometer and guidebook/step log, access to healthy tips via email to keep participants engaged.
- Encourages accountability & support to keep moving throughout the program by team participation.

### Participant receives

- Walk the Rock guide and logbook with walking tips, tracking log and conversion table for other activities.
- Digital pedometer
- Weekly motivational e-mail messages
- Opportunity to earn incentive prizes

### Timeline

- Pick a team captain to register your team of 2 or more from **March 9 – March 24** in Community Activities, Building 805
- Participants will manually log their steps in their log book on a daily basis. At the end of each week, participants will submit their weekly step totals to their team captain.

## Weather courtesy of RTS Weather

Sunday: Partly sunny, 20 percent showers. Winds: NE-ENE at 16-22 knots.  
Monday: Partly sunny, 10 percent showers. Winds: NE at 15-20 knots.  
Tuesday: Partly sunny, 20 percent showers. Winds: NE-ENE at 15-20 knots.  
Wednesday: Partly sunny, 30 percent showers. Winds: NE-ENE at 18-25 knots.  
Thursday: Partly sunny, 20 percent showers. Winds: NE-ENE at 18-25 knots.  
Friday: Mostly sunny, 10 percent showers. Winds: NE-ENE at 116-22 knots.

Annual total: 7.41 inches  
Annual deviation: -2.67 inches

Call 54700 for updated forecasts or visit [www.rts-wx.com](http://www.rts-wx.com).

### Sunrise/set Moonrise/set High Tide Low Tide

	Sunrise/set	Moonrise/set	High Tide	Low Tide
Sunday	6:57 a.m./7:00 p.m.	4:53 a.m./4:57 p.m.	3:49 a.m., 3.7' 3:56 p.m., 4.3'	9:46 a.m., -0.2' 10:09 p.m., -0.5'
Monday	6:56 a.m./7:00 p.m.	5:31 a.m./5:47 p.m.	4:13 a.m., 4.0' 4:21 p.m., 4.4'	10:13 a.m., -0.4' 10:41 p.m., -0.6'
Tuesday	6:56 a.m./7:00 p.m.	6:09 a.m./6:27 p.m.	4:36 a.m., 4.3' 4:46 a.m., 4.5'	10:41 p.m., -0.6' 10:54 p.m., -0.7'
Wednesday	6:55 a.m./7:00 p.m.	6:46 a.m./7:10 p.m.	5:01 a.m., 4.5' 5:11 p.m., 4.4'	11:06 a.m., -0.7' 11:17 a.m., -0.7'
Thursday	6:55 a.m./7:00 p.m.	7:24 a.m./7:56 p.m.	5:26 a.m., 4.5' 5:36 a.m., 4.2'	11:34 a.m., -0.6' 11:46 p.m., -0.6'
Friday	6:54 a.m./7:00 p.m.	8:04 a.m./8:43 p.m.	5:51 a.m., 4.5' 6:03 p.m., 3.9'	12:03 p.m., -0.5' 12:03 p.m., -0.5'
Mar. 20	6:54 a.m./7:00 p.m.	8:47 a.m./9:34 p.m.	6:19 a.m., 4.3' 6:13 a.m., 3.5'	12:04 p.m., -0.4' 12:34 p.m., -0.2'